

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is an Toy RC Speed Bumper Road Rage operating at 2.4G Band. The EUT can be powered by DC 3.0V (2 x 1.5V AAA batteries). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: -5.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -5.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 90.9dB μ V/m at 3m in the frequency 2477MHz

The EIRP = [(FS*D) ^2 / 30] mW = -4.33dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 87.7dB μ V/m at 3m in the frequency 2440MHz

The EIRP = [(FS*D) ^2 / 30] mW = -7.53dBm
which is within the production variation.

The maximum conducted output power specified is -2.0dBm= 0.631mW

The source- based time-averaging conducted output power
=0.631mW

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)

= 3.0 * 5 / sqrt (2.477) mW

= 9.53 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

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